

## ABSTRACT

A composite metal polybasic salt containing a trivalent metal, zinc metal and a divalent metal as metal components and having a novel crystal structure, and a method of preparing the same. The invention further deals with a composite metal polybasic salt which has anion-exchanging property, which by itself is useful as an anion-exchanger, capable of introducing anions suited for the use upon anion-exchange, and finds a wide range of applications, and a method of preparing the same. The composite metal polybasic salt has a particular chemical composition and X-ray diffraction peaks, exhibiting peaks at  $2\theta = 2$  to  $15^\circ$ ,  $2\theta = 19.5$  to  $24^\circ$  and  $2\theta = 33$  to  $50^\circ$ , and a single peak at  $2\theta = 60$  to  $64^\circ$  in the X-ray diffraction (Cu- $\alpha$ ).

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2001年1月18日 (18.01.2001)

PCT

(10) 国際公開番号  
WO 01/04054 A1

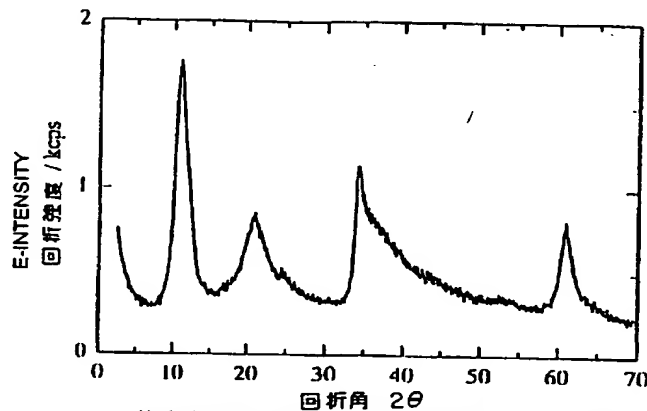
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(22) 国際出願日: 2000年7月7日 (07.07.2000)  
(25) 国際出願の言語: 日本語  
(26) 国際公開の言語: 日本語  
(30) 優先権データ: 特願平11/195121 1999年7月8日 (08.07.1999) JP (74) 代理人: 鈴木郁男 (SUZUKI, Ikuo); 〒105-0002 東京都港区愛宕1丁目6番7号 愛宕山弁護士ビル Tokyo (JP).  
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(84) 指定国 (広域): ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

添付公開書類:  
— 国際調査報告書

[続葉有]

(54) Title: ZINC-MODIFIED COMPOSITE POLYBASIC SALT, PROCESS FOR PRODUCING THE SAME, AND USE

(54) 発明の名称: 亜鉛変性複合多塩基性塩、その製法及び用途



複合金属多塩基性塩PBS (実施例3) のX線回折像  
X-RAY DIFFRACTION IMAGE FOR COMPOSITE-METAL POLYBASIC SALT,  
PBS (EXAMPLE 3)

(57) Abstract: A composite-metal polybasic salt which contains, as metallic ingredients, a trivalent metal, zinc metal, and a divalent metal and has a novel crystalline structure. It has anion-exchanging properties and is useful by itself as an anion exchanger, and an anion suitable for the intended application can be incorporated thereinto through anion exchange. It is usable in a wide range of applications. The composite-metal polybasic salt is characterized by having a chemical composition represented by  $(M2)_a(Zn)_b(M3)_x(OH)_y(A)_z \cdot nH_2O$  (wherein M2 is a divalent metal; M3 is a trivalent metal; A is an anion; and a, b, x, y, z, and n each is a number showing the proportion) and having a diffraction peak at each  $2\theta$ 's of 2 to 15°, 19.5 to 24°, and 33 to 50° and a single peak at a  $2\theta$  of 60 to 64° in X-ray diffractometry (Cu- $\alpha$ ).

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